

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
White Sands Test Facility
P.O. Box 20
Las Cruces, NM 88004-0020



February 26, 2010

Reply to Attn of: RA-E10-024

State Emergency Response Commission
Attn: Ron Breland
Department of Homeland Security and Emergency Management
P. O. Box 27111
Santa Fe, NM 87502

Subject: NASA White Sands Test Facility (WSTF) 2009 SARA Title III Tier II
Emergency and Hazardous Chemical Inventory Report

Enclosed is the WSTF SARA Title III Tier II Emergency and Hazardous Chemical Inventory Report for 2009. This includes the cover sheet that contains the Certification Statement for electronic reporting as Enclosure 1, and a CD-ROM of the Tier II forms as Enclosure 2.

If you have any questions or comments concerning this submittal, please call me at (575) 524-5733.

A handwritten signature in dark ink, appearing to read "Radel Bunker-Farrar". The signature is fluid and cursive, with the first name "Radel" being the most prominent.

Radel Bunker-Farrar
Environmental Program Manager

2 Enclosures

cc w/encl:
Mr. David Almaguer
Emergency Management Supervisor
1170 North Solano Suite O
Las Cruces, NM 88001

Travis Brown, Interim Chief
Emergency Planning Coordinator
Las Cruces Fire Department
P. O. Box 20000

ENCLOSURE

**2009 WSTF
TIER II REPORT CD
AND CERTIFICATION**

Tier Two
Emergency and Hazardous Chemical Inventory
Specific Information by Chemical

Reporting Period: January 1 to December 31, 2009
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Printed: February 12, 2010

Facility Name: NASA WHITE SANDS TEST FACILITY

FACILITY IDENTIFICATION:

NASA WHITE SANDS TEST FACILITY
Dept:
12600 NASA Road
Las Cruces, NM 88012 USA
County: Dona Ana
Number of employees: 725
MAILING ADDRESS: P.O. Box 20
Las Cruces, NM 88004 USA

IDENTIFICATION NUMBERS:

Dun & Bradstreet:
NAICS: 92711 (Space Research and Technology)
SIC: 9661 (SPACE RESEARCH AND TECHNOLOGY)

CONTACT INFORMATION:

WSTF Fire Department,
Contact Type 1: Emergency Contact
Address: 12600 NASA Road, Las Cruces, NM, 88012 USA
Phones: 24-hour: (575) 524-5911

NASA White Sands Test Facility,
Contact Type 1: Owner / Operator
Address: P.O. Box 20, Las Cruces, NM, 88004 USA
Phones: Work: (575) 524-5733
Email: Radel.L.Bunker-Farrah@nasa.gov

CHEMICAL DESCRIPTIONS:

☐ All chemicals in inventory are identical to last year's submission

CHEM NAME: 1,1-DIMETHYL HYDRAZINE

CAS: 57-14-7

☒ Identical to previous year

☐ TRADE SECRET

☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: M Pressure: 1 Temp: 4 Location: 200 Area Chemistry Laboratory Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Remote Storage Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

Emergency and Hazardous Chemical Inventory

Specific Information by Chemical

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Facility Name: NASA WHITE SANDS TEST FACILITY

CHEM NAME: 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

CAS: 76-13-1

☒ Identical to previous year☐ TRADE SECRET☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: D Pressure: 1 Temp: 4 Location: 150 Warehouse Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: Chemistry Laboratory Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: CHLORINE

CAS: 7782-50-5

☐ Identical to previous year☐ TRADE SECRET☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS

PHYSICAL & HEALTH HAZARDS:

☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 02 (100 - 999 pounds)

Avg Daily Amt code: 02 (100 - 999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Warehouse Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 600 Area Chlorination Building Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: DIESEL FUEL

CAS: 68476-34-6

☐ Identical to previous year☐ TRADE SECRET☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 1 Temp: 4 Location: 150 Area Heavy Equipment Tank Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 300 Area Altitude Test Tanks Amount: pounds

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Specific Information by Chemical

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Facility Name: NASA WHITE SANDS TEST FACILITY

Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Altitude Test Tanks Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: DINITROGEN OXIDE (N2O)

CAS: 10102-44-0

☐ Identical to previous year☐ TRADE SECRET☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS

PHYSICAL & HEALTH HAZARDS:

☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Chemistry Laboratory Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 300 Area Altitude Test Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 400 Area Altitude Test Tanks Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 500 Area Remote Storage Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: ETHANOL

CAS: 64-17-5

☐ Identical to previous year☐ TRADE SECRET☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: B Pressure: 1 Temp: 4 Location: 100 Area E-85 Tank Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Test System Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: GASOLINE

CAS: 8006-61-9

☐ Identical to previous year☐ TRADE SECRET☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

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Specific Information by Chemical

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Facility Name: NASA WHITE SANDS TEST FACILITY

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: B Pressure: 1 Temp: 4 Location: 100 Area Building 113 Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: HYDRAZINE

CAS: 302-01-2

☐ Identical to previous year

☐ TRADE SECRET

☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS

PHYSICAL & HEALTH HAZARDS:

☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Chemistry Laboratory Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 300 Area Altitude Test Tanks Amount: pounds

Container Type: L Pressure: 1 Temp: 4 Location: 500 Area Remote Storage Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 800 Area Test Storage Tanks Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: HYDROGEN (LIQUEFIED)

CAS: 1333-74-0

☐ Identical to previous year

☐ TRADE SECRET

☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☒ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 2 Temp: 7 Location: 250 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: HYDROGEN, GAS

CAS: 1333-74-0

☐ Identical to previous year

☐ TRADE SECRET

☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☒ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)

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Specific Information by Chemical

Printed: February 12, 2010

Facility Name: NASA WHITE SANDS TEST FACILITY

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Laboratory Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 272 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 250 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: ISOPROPYL ALCOHOL

CAS: 67-63-0

☐ Identical to previous year

☐ TRADE SECRET

☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: D Pressure: 1 Temp: 4 Location: 150 Area Warehouse Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 200 Area Clean Room Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Altitude Test Tanks Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Remote Storage Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: LIQUID OXYGEN

CAS: 7782-44-7

☐ Identical to previous year

☐ TRADE SECRET

☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 2 Temp: 7 Location: 250 Test Area Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 400 Area Test Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 800 Area Test Tanks Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

Facility Name: NASA WHITE SANDS TEST FACILITY

CHEM NAME: METHYLHYDRAZINE**CAS:** 60-34-4☐ Identical to previous year☐ TRADE SECRET☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS**PHYSICAL & HEALTH HAZARDS:**☒ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)**INVENTORY:**

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Chemistry Laboratory Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 300 Area Storage/Dump Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 400 Area Storage/Dump Tanks Amount: pounds

Container Type: D Pressure: 2 Temp: 4 Location: 500 Area Remote Storage Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:No additional chemical information is required by New Mexico

CHEM NAME: NITROGEN (LIQUEFIED)**CAS:** 7727-37-9☐ Identical to previous year☐ TRADE SECRET☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS**PHYSICAL & HEALTH HAZARDS:**☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)**INVENTORY:**

Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 2 Temp: 7 Location: 200 Area Tanker Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 250 Storage Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 400 Area Storage Tanks Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 500 Area Cryo Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:No additional chemical information is required by New Mexico

CHEM NAME: NITROGEN GAS**CAS:** 7727-37-9☐ Identical to previous year☐ TRADE SECRET☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS**PHYSICAL & HEALTH HAZARDS:**☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)**INVENTORY:**

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Warehouse Amount: pounds

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Reporting Period: January 1 to December 31, 2009

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Facility Name: NASA WHITE SANDS TEST FACILITY

Container Type: A	Pressure: 2	Temp: 4	Location: 250 Area Storage Tank	Amount: pounds
Container Type: A	Pressure: 2	Temp: 4	Location: 400 Area Storage Tank	Amount: pounds
Container Type: A	Pressure: 2	Temp: 4	Location: 500 Area Cryo	Amount: pounds
Container Type: R	Pressure: 2	Temp: 4	Location: Associated with Site-wide Piping Systems	Amount: pounds
Container Type: L	Pressure: 2	Temp: 4	Location: 600 Area Sampling Dewars/K-bottles	Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: OXYGEN

CAS: 7782-44-7

☐ Identical to previous year☐ TRADE SECRET☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Warehouse Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 250 Area Test Tanks Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: PROPANE

CAS: 74-98-6

☐ Identical to previous year☐ TRADE SECRET☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS

PHYSICAL & HEALTH HAZARDS:

☒ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 366

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Warehouse, Security, and Emergency Services

Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 300 Area Burner Tanks Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 400 Area Burner Tanks Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 600 Area Small Tanks Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 800 Area Burner Tanks Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

FACILITY STATE FIELDS:

No additional information is required by New Mexico

Tier Two

Emergency and Hazardous Chemical Inventory

Specific Information by Chemical

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Facility Name: NASA WHITE SANDS TEST FACILITY

STATE / LOCAL FEES: None.

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 8,
and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Radel Bunker-Farrah

Name and official title of owner/operator
OR owner/operator's authorized representative

Signature

02/20/2010

Date signed